

## 03050201-030

*(Cooper River/West Branch Cooper River)*

### General Description

Watershed 03050201-030 is located in Berkeley County and consists primarily of the ***Cooper River and the West Branch Cooper River*** and their tributaries. The watershed occupies 36,153 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Bladen-Bohicket-Wahee-Chipley series. The erodibility of the soil (K) averages 0.14; the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 57.0% forested land, 12.7% forested wetland, 12.4% water, 7.3% urban land, 7.1% agricultural land, 2.9% scrub/shrub land, and 0.6% barren land.

The Cooper River is formed by the confluence of Lake Moultrie (Tail Race Canal) and Wadboo Creek. The West Branch Cooper River is formed from the confluence of the Cooper River and Mepkin Creek. The West Branch Cooper River accepts drainage from Molly Branch (Stony Branch, Wappoola Swamp) and Durham Creek (Durham Canal). The West Branch Cooper River drains into the Back River watershed (03050201-060) via Durham Creek and the Cooper River. There are a few recreational ponds (10-60 acres) and a total of 166.6 stream miles in this watershed, all classified FW. There also are numerous historic structures in the watershed.

### Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CSTL-085	S	FW	PIER IN W. BR. COOPER R. AT END OF RICE MILL RD IN PIMLICO

***West Branch Cooper River (CSTL-085)*** - Aquatic life uses are fully supported. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. P,P'DDE (a metabolite of DDT) was detected in the 1997 sediment sample. Although the use of DDT was banned in 1973, it is very persistent in the environment. Recreational uses are partially supported due to fecal coliform bacteria excursions.

*A fish consumption advisory has been issued by the Department for mercury and includes the West Branch Cooper River within this watershed (see advisory p.62).*

### NPDES Program

#### ***Active NPDES Facilities***

<b><i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</i></b>	<b><i>NPDES# TYPE LIMITATION</i></b>
WEST BRANCH COOPER RIVER	SC0021598

TOWN OF MONCK'S CORNER WWTP  
PIPE #: 001 FLOW: 2.4

MAJOR DOMESTIC  
WQL FOR NH<sub>3</sub>-N

WEST BRANCH COOPER RIVER  
BCW&SA/CENTRAL BERKELEY WWTP  
PIPE #: 001 FLOW: 1.0

SC0039764  
MINOR DOMESTIC  
EFFLUENT

WAPPOOLA SWAMP  
SCE&G/WILLIAMS ASH PILE  
PIPE #: 001 FLOW: M/R  
UNCONSTRUCTED

SC0046175  
MINOR INDUSTRIAL  
EFFLUENT

MOLLY BRANCH  
SCE&G/WILLIAMS LANDFILL  
PIPE #: 001 FLOW: 0.033

SC0039535  
MINOR INDUSTRIAL  
EFFLUENT

MOLLY BRANCH TRIBUTARY  
OAKLEY VOCATIONAL CENTER  
PIPE #: 001 FLOW: 0.0075  
WQL FOR BOD<sub>5</sub>, NH<sub>3</sub>-N, TRC, DO

SC0026867  
MINOR DOMESTIC  
WATER QUALITY

MOLLY BRANCH  
D&A PARTNERSHIP/DANGERFIELD MINE  
PIPE #: 001 FLOW: M/R

SCG730125  
MINOR INDUSTRIAL  
EFFLUENT

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### Landfill Facilities

**SOLID WASTE LANDFILL NAME**  
**FACILITY TYPE**

**PERMIT #**  
**STATUS**

SCE&G/WILLIAMS STATION  
INDUSTRIAL

083320-1601 (IWP-191)  
ACTIVE

SCE&G/GENCO/WILLIAMS STATION  
INDUSTRIAL

083309-1601  
ACTIVE

BERKELEY COUNTY LANDFILL  
MUNICIPAL

081001-1101 (DWP-105,  
ACTIVE 081001-1102)

OLD BERKELEY COUNTY  
MUNICIPAL

DWP-015  
CLOSED

OLD BERKELEY COUNTY/NEIGHBORS SITE  
MUNICIPAL

DWP-073  
CLOSED

BERKELEY COUNTY C&D LANDFILL  
CONSTRUCTION

081001-1201  
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BERKELEY COUNTY TIRE DISPOSAL  
MUNICIPAL

081001-5101  
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### *Groundwater Contamination*

The groundwater in the vicinity of the property owned by Dupont Standard Warehouse is contaminated by volatile organic compounds due to spills and leaks. The stream affected by the contamination is a tributary of Stony Branch. The facility is currently in the assessment phase and the Department is pursuing corrective action.

### **Growth Potential**

Future growth is expected in several areas within the watershed, including the Town of Monks Corner, the Whitesville and Pimlico Communities, and the Berkeley Country Club area. The Town of Monks Corner and Berkeley County operate water and sewer systems in the area, which may allow scattered development.